



Figure 1. Combined overview of the areas where the Brasschaat Member and the Merksplas Formation are present (according to the G3D-model, available on http://dov.vlaanderen.be).

Thickness: May reach a thickness of 30m, but is typically about 15m thick. The largest thickness is observed in the northwest and the northeast, near the Dutch border. The smallest thickness is observed in the central area Rijkevorsel-Hoogstraten-Merksplas.

Age: Lower-Pleistocene

Well logs: The Brasschaat Member can be recognized by its high gamma-ray signal and low resistivity signal. The gamma ray tends to increase towards the top of the Brasschaat Member, while the resistivity often decreases towards the top of this deposit. The base of the Brasschaat Member is characterized by an abrupt increasing resistivity signal due to the transition to the Merksplas Formation. The use of the gamma-ray signal to define the base of the Brasschaat Member can be a little problematic, especially if the Brasschaat Member is positioned directly upon the Lillo Formation. The transition from the Brasschaat Member to the overlying Weelde Formation is characterized by a sudden increase in gamma-ray and an important decrease in resistivity signal.

Examples of clarifying well logs can be found in e.g. 6E135 (DOV kb7d6e-B298, x = 154.850, y = 232.630) Brasschaat Member between 17m and 31m below the surface (Figure 2) and 7E208 (DOV kb8d7e-B49, x = 175.640, y = 233.900) Brasschaat Member between 26m and 38m below the surface.

Figure 2. Well log and interpretation of the Kalmthout borehole.

Remarks:

- The term Brasschaat (Brasschaat sands) is used for the first time by Gulinck in 1962.

- Concerning the archives of the Geological Survey of Belgium: in the areas where both the Merksplas Formation and the Brasschaat Member are present, the Brasschaat Member is not termed, it is incorporated in the Merksplas Formation.

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